Mechanical Engineering Turbomachines Interview Questions with Answers Pdf

1. In a two stage gas turbine plant, reheating after first stage

a. increases thermal efficiency

b., decreases thermal efficiency

c. does not affect thermal efficiency

d. none of the above

Ans: B

2. In a reheating gas turbine cycle, reheating is done

a. by gases from turbine exhaust

b. by gases from intercooler

c. in separate combustion chamber

d. any of the above

Ans: C

3. Which of the following are positive displacement rotary compressor?

a. Roots blower

b. centrifugal compressor

c. axial flow compressor

d. all of the above

Ans A

4. Normal standard of compression for roto1ry compressor is

a. adiabatic compression

b, polytropic compression

c. isentropic compression

d. constant pressure compression

Ans; C

5. In rotory compressors, the ratio of isentropic work to Euler's work is known as

a. slip factor

b. work factor

c. pressure coefficient

d. degree of reaction

Ans: c

6. Working medium for closed cycle gas turbine should have

a. high molecular weight

b. low specific volume

c. higher adiabatic index

d., lower specific speed

Ans: C

7. The effect of blade friction in a steam turbine is to

a. reheat the steam

b. increase the specific output

c. reduce exhaust pressure

d. reduce work done

Ans: D

8. Which of the following rotary compressor has two shafts?

a. Axial flow compressor

b. Sliding vane compressor

c. Centrifugal compressor

d. Lobe type compressor

Ans: D

9. Generally, steam turbines in power stations operate at

a. 3000 rpm

b. 1500 rpm

c. 1000 rpm

d. 375 rpm

Ans: A

10. The ratio of outlet whirl velocity to blade velocity in case of centrifugal compressor is called

.a slip factor

b. velocity ratio

c. blade efficiency

d. diagram efficiency

Ans: A